TABLE 6. Discussion of pollen zones depicted in figure 8.			
Zone 7 0 - 11 cm 1996 to < 1963	 Arboreal taxa stable except for <i>Quercus</i> which increases. Compositae (high and low-spine) and Graminea increase. Coiled microforams increase dramatically. 	Modern zone, defined by an increase in microforam linings (fig. 9H) possibly resulting from the rise in salinity levels after construction of the Mississippi River/ Gulf Outlet Canal in the late 1950's.	
Zone 6 11 - 77 cm < 1963 to > 1830	 Arboreal taxa decline, especially TCT. Non-arboreal taxa remain unchanged except Cheno-Am which fluctuates. Compositae (low-spine) rises dramatically, then begins declining. 	Defined by the dramatic decrease in TCT and the large increase in low-spine Compositae. The TCT decline records the historic decline in <i>Taxodium distichum</i> (bald cypress) resulting from intensive logging between 1890 and 1925 and the slightly earlier logging associated with the expansion of New Orleans. Continued increase of low-spine Compositae is the result of logging and/or expanding settlement.	
Zone 5 77 - 106 cm > 1830 to 550 ± 50 yr BP (1350 - 1450; uncalibrated)	 Arboreal taxa remain the same except Quercus which declines. Cheno-Am and Compositae (highspine) remain low. Compositae (lowspine) begins increase. Cyperaceae, Graminea, Sagittaria, and Typha decline. Vigna luteola appears for the first time. 	Most noticeable is the increase in low-spine Compositae (fig. 9F) and the appearance of <i>Vigna luteola</i> (fig. 9G) (cow pea) at 85 cm, an Old World domesticate that probably made its first appearance after colonization of New Orleans in 1717. The increase in the sun-loving, low-spine Compositae supports the hypothesis that Zone 5 reflects the period of colonization and clearing of the New Orleans area.	
Zone 4 106 - 214 cm 550 ± 50 (1450 - 1350; uncalibrated) to >1000 ± 60 yr BP	 Pinus, Quercus, Salix, and TCT increase. Cheno-Am and Compositae remain low. Cyperaceae and Graminea are abundant. Sagittaria appears for the first time. Typha reaches a peak near the top of this zone. 	The return of wetland taxa such as <i>Salix</i> , Cyperaceae (fig. 9E) and <i>Typha</i> indicates an end to the drier conditions of Zone 3. Although Zone 4 is characterized by a return to wetter conditions, the abundance of Cyperaceae and Graminea, and the appearance of <i>Sagittaria</i> , make this wetland qualitatively different from the wetland of Zone 2. Zone 4 has a stronger marsh character and probably records the beginning of the disintegration of the St. Bernard deltaic plain following its maximum development.	

Amaranthaceae) fluctuates but maintains a strong presence throughout. Compositae (high- spine), Graminea and Typha increase in the middle of the zone. Compositae (low- spine) and Cyperaceae are present but rare. Compositae (low- spine) and Cyperaceae are present but rare. Compositae (low- spine) and Cyperaceae are present but rare. Amaranthaceae) fluctuates but maintains a strong presence of Compositae (high-spine) and Graminea (fig. 9D) is consistent with a marsh environment, perhaps along the delta margin. Zone 2 is synchronous with the developmental phase of the St. Bernard delta. Compositae (low- spine) and Cyperaceae are present but rare. Zone 1 384 - 396 cm 3180 ± 50 to Pollen not abundant Amaranthaceae) fluctuates but maintains a strong presence of Compositae (high-spine) and Graminea (fig. 9D) is consistent with a marsh environment, perhaps along the delta margin. Zone 2 is synchronous with the developmental phase of the St. Bernard delta. 14 C age is old compared to previous work in the area (Frazzier, 1967). The date, on decomposed plant fragmentation interdistributary clay, probably reflects			
common. Salix reaches a peak. TCT (Taxodiaceae/Cupress aceae/Thuja) generally increases. Cheno-Am (Chenopodiaceae-Amaranthaceae) fluctuates but maintains a strong presence throughout. Compositae (highspine), Graminea and Typha increase in the middle of the zone. Compositae (lowspine) and Cyperaceae are present but rare. Zone 1 384 - 396 cm 3180 ± 50 to Pollen not abundant Salix reaches a peak. The presence of Quercus, Salix and TCT (fig. 9A) reflects the proximity of floodplain forests. Cheno-Am (fig. 9B) and Typha (fig. 9C) are typical pond or stream side taxa in fresh to brackish water marshes. The presence of Compositae (high-spine) and Graminea (fig. 9D) is consistent with a marsh environment, perhaps along the delta margin. Zone 2 is synchronou with the developmental phase of the St. Bernard delta. The presence of Quercus, Salix and TCT (fig. 9A) reflects the proximity of floodplain forests. Cheno-Am (fig. 9B) and Typha (fig. 9D) is consistent with a marsh environment, perhaps along the delta margin. Zone 2 is synchronou with the developmental phase of the St. Bernard delta. The presence of Quercus, Salix and TCT (fig. 9A) reflects the proximity of floodplain forests. Cheno-Am (fig. 9B) and Typha (fig. 9D) is consistent with a marsh environment, perhaps along the delta margin. Zone 2 is synchronou with the developmental phase of the St. Bernard delta. The presence of Quercus, Salix and TCT (fig. 9A) reflects the proximity of floodplain forests. Cheno-Am (fig. 9B) and Typha (fig. 9C) are typical pool or stream is detailed to the proximity of floodplain forests. Cheno-Am (fig. 9B) and Typha (fig. 9C) are typical pool or stream is detailed to the proximity of floodplain forests. Cheno-Am (fig. 9B) and Typha (fig. 9C) are typical pool or stream is detailed to the proximity of floodplain forests. Cheno-Am (fig. 9B) and Typha (fig. 9D) are typical pool or stream is detailed to the proximity of floodplain forests. Cheno-Am (fig. 9B) are floodplain forests. Cheno-Am (fig. 9B) are floodplain forests. Ch	214 - 305 cm >1000 ± 60 to	Piperaceae make their only appearance. Pinus, Quercus, and Compositae (lowspine) are common. Salix and TCT decline. Cheno-Am, Compositae (highspine), and Typha decline. Cyperaceae and Graminea increase at the initiation of the zone and subsequently disappear and decline,	The presence of <i>Juglans</i> (and possibly Piperaceae) indicates a shift to drier, more terrestrial, conditions than those reflected in Zone 2. This conclusion is supported by the decline of <i>Salix</i> , Cheno-Am, and <i>Typha</i> . Following the delta model (Coleman and Roberts, 1989), Zone 3 is composed of the vegetation of the mature delta plain. That is, as the delta prograded further seaward of the core site, the site
• Pyrite abundant in sample. • Pyrite abundant in sample. • Pollen not abundant in sample of the previous work in the area (Frazier, 1967). The date, on decomposed plant fragments in the interdistributary clay, probably reflects plant abundant of the previous work in the area (Frazier, 1967). The date, on decomposed plant fragments in the interdistributary clay, probably reflects plant abundant in sample.	305 - 384 cm 2360 ± 60 to	 Salix reaches a peak. TCT (Taxodiaceae/Cupress aceae/Thuja) generally increases. Cheno-Am (Chenopodiaceae-Amaranthaceae) fluctuates but maintains a strong presence throughout. Compositae (highspine), Graminea and Typha increase in the middle of the zone. Compositae (lowspine) and Cyperaceae are 	The presence of <i>Quercus</i> , <i>Salix</i> and TCT (fig. 9A) reflects the proximity of floodplain forests. Cheno-Am (fig. 9B) and <i>Typha</i> (fig. 9C) are typical pond or stream-side taxa in fresh to brackish water marshes. The presence of Compositae (high-spine) and Graminea
0420 ± 60 yr BP	384 - 396 cm	sample.	

Source: U.S. Geological Survey Open-File Report 98-36. Carbon storage and late Holocene chronostratigraphy of a Mississippi River deltaic marsh, St. Bernard Parish, Louisiana (H.W. Markewich, ed.). Last Updated on 2/5/98 by Gary R. Buell